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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

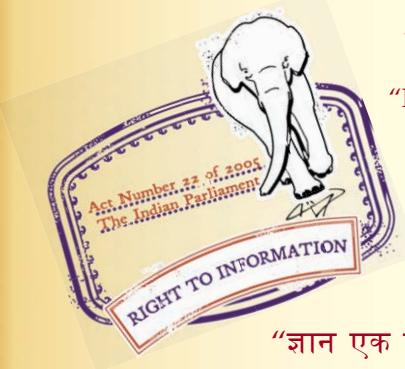
“Step Out From the Old to the New”

IS 6413 (1972): Clippers, hair, animal, hand-operated [MED 1: Boilers and Pressure Vessels]

“ज्ञान से एक नये भारत का निर्माण”

Satyanaaranay Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartṛhari—Nītiśatakam

“Knowledge is such a treasure which cannot be stolen”



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Indian Standard

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- steels for cold work'II of IS : 4454-1967
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AMENDMENT NO. 1 DECEMBER 1981

TO

IS : 6413 - 1972 SPECIFICATION FOR CLIPPERS, HAIR, ANIMAL,
HAND OPERATED

Addendum

(Page 1, clause 3.2) — Add the following new clause after 3.2:

"3.3 The tolerance on dimensions shall conform to class of deviation 'extra course' covered in
IS : 2102-1969 'Allowable deviations for dimensions without specified tolerances (first revision)'."

(CPDC 32)

Mule

3.2

4. Manufacture — Both the arms shall be forged. The top and bottom plates shall be cut by means of dies and punched to maintain accuracy in size. The teeth in the plates shall be cut true, accurate and even in spacing.

Adopted 28 January 1972

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Gr 2



Indian Standard
SPECIFICATION FOR
CLIPPERS, HAIR, ANIMAL, HAND OPERATED

1. Scope — Dimensions and other requirements for hand operated animal hair clippers ordinarily used for cutting the hair of horses and mules.

2. Materials

<i>Component</i>	<i>Material</i>	<i>Conforming to</i>
Fixed arm and movable arm	Mild steel	—
Handles for fixed and movable arms	Wood or Unbreakable plastics	IS : 620-1965 'General requirements for wooden tool handles (second revision)'
Ferrule	Brass	—
Top plate and bottom plate	Carbon steel	Designation T118 of IS : 3749-1966 'Specification for tool and die steels for cold work'
Spring	Carbon steel	Grade 2 of Section II of IS : 4454-1967 'Specification for steel wires for cold formed springs'
Washer, clamping screw and wing nut	Mild steel	—
Bearing strip and square pins	Carbon steel	Designation T50 of Schedule VI of IS : 1570-1961 'Specification for wrought steels for general engineering purposes'
Joint screw	Mild steel	—
Cover	Tin sheet or Plastics	—

3. Shape and Dimensions

3.1 The hair clippers shall generally conform to Fig. 1 to 3. The detailed design and shape of component parts shall be as agreed to between the purchaser and the supplier.

3.2 The teeth in the top and bottom plates of hair clippers shall be as shown in Fig. 2 and 3 and the pitch shall be as given below:

	<i>Pitch of Teeth</i>
	mm
Horse	2.5
Mule	3.2

4. Manufacture — Both the arms shall be forged. The top and bottom plates shall be cut by means of dies and punched to maintain accuracy in size. The teeth in the plates shall be cut true, accurate and even in spacing.

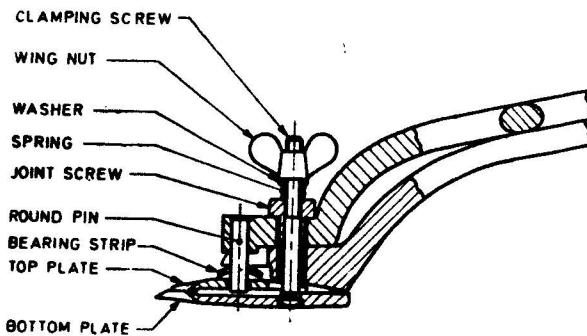
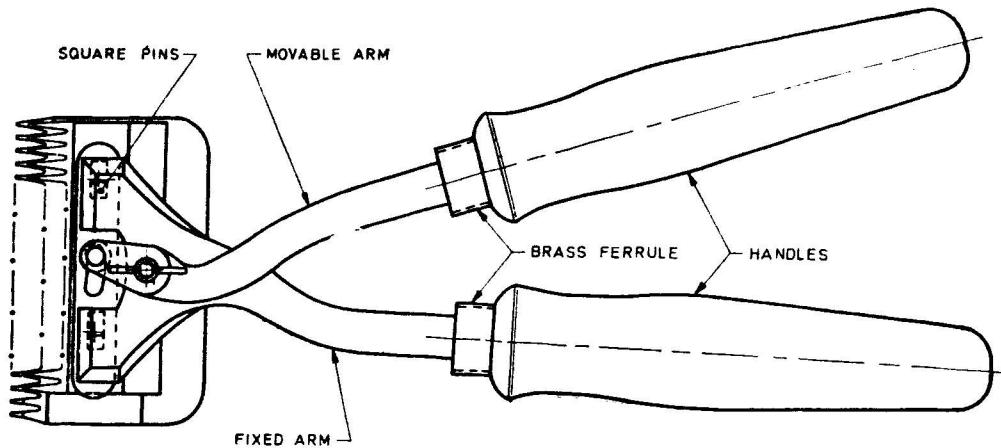
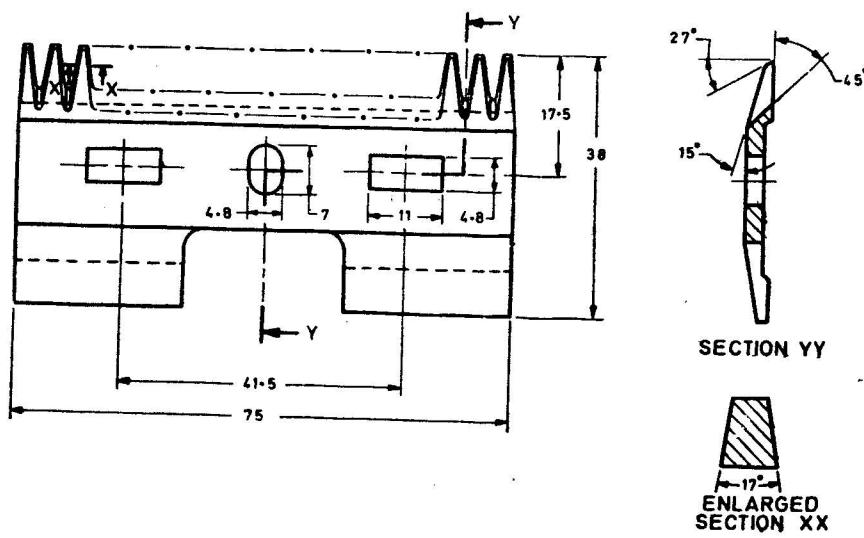
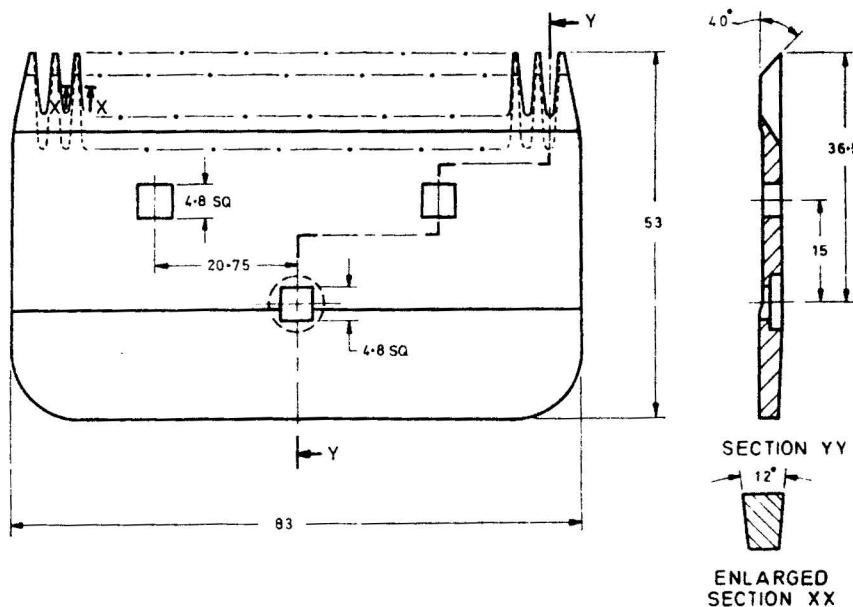


FIG. 1 ANIMAL HAIR CLIPPERS, HAND-OPERATED



All dimensions in millimetres.

FIG. 2 TOP PLATE



All dimensions in millimetres.

FIG. 3 BOTTOM PLATE

5. Hardness — The components shall be uniformly hardened and tempered to hardnesses as shown below:

Top and bottom plates	700 to 800 HV
Spring, bearing strip, and round pin on the movable arm	400 to 500 HV

6. Workmanship and Finish

6.1 All the components shall be free from cracks, seams, flaws and all the edges shall be smooth except the cutting edges.

6.2 The teeth shall be clean and bright, free from nicks, burrs and feathers. These shall be properly sharpened and ready for immediate use.

6.3 The working ends bearing against each other shall be flat, smoothly ground and finely finished.

6.4 There shall be no play between the arm and the handle.

6.5 There shall be no undue stiffness, shake, play and chatter between the moving parts. The clippers shall operate conveniently and smoothly.

6.6 The wooden handles shall be finished all over and wax coloured.

6.7 The fixed arm, movable arm, wing nut, spring, bearing strip, and joint screw shall be plated chromium over nickel and the plating shall conform to Service Grade No. 2 of IS : 1068-1968 'Specification for electroplated coatings of nickel and chromium on iron and steel (first revision)'. The washer and clamping screw shall be of blue colour.

7. Marking — The hair clippers shall be legibly and indelibly marked with the manufacturer's name, initials or recognized trade-mark and the country of manufacture.

7.1 ISI Certification Marking — Details available from the Indian Standards Institution.

8. Packing — The hair clippers shall be treated with a suitable rust preventive and then wrapped in a tissue paper or put in a polyethylene bag and packed in a carton bearing manufacturer's name, initials or recognized trade-mark and the country of manufacture.

9. Sampling — Sampling and acceptance criteria shall be as agreed to between the purchaser and the supplier.

10. Performance Test — The clippers shall cut the hair evenly without drag or pull.